

## **Claims**

The following is a copy of Applicant's claims that identifies language being added with underlining ("\_\_\_\_") and language being deleted with strikethrough ("——"), as is applicable:

1. (Currently amended) A method for determining bug ownership, comprising:

~~generating a database that contains database tokens that relate to identified bugs and that are associated with potential owners;~~

scanning a bug database that contains bug records that describe known bugs and identify owners of those bugs;

generating database tokens that represent words contained in the bug records;

as to each bug owner, determining the number of times each database token appears in bug records owned by the bug owner such that the number of times the database tokens appear in association with each bug owner is known;

storing the determined number of times in a derivative database;

generating input tokens ~~associated with~~ that represent words contained in a description of a bug in question;

scanning the derivative database for occurrences of the input tokens; ~~and~~

identifying the number of times each input token appears in association with each bug owner; and

~~as to each of multiple potential bug owners, determining an overall a statistical~~  
~~probability of ownership of the potential bug owner owning the bug in question for~~  
~~potential owners in the database.~~

2-9. (Canceled)

10. (Currently amended) The method of claim 1, wherein determining the  
~~overall a statistical~~ probability of ownership comprises summing the total number of  
occurrences of each input token in the derivative database and normalizing the total  
number of occurrences of each input token as to each potential bug owner ~~of the~~  
database.

11. (Currently amended) The method of claim 10, wherein determining the  
~~overall a statistical~~ probability of ownership further comprises scaling normalized values  
that result from the normalizing to obtain scaled probabilities as to each input token  
relative to each potential bug owner ~~of the database.~~

12. (Currently amended) The method of claim 11, wherein determining the  
~~overall a statistical~~ probability of ownership further comprises determining the standard  
deviance for each scaled probability and removing ~~owner~~ tokens associated with given  
potential bug owners from consideration ~~that are associated with an input token having~~  
when those tokens exhibit a deviance below a predetermined minimum deviance.

13. (Currently amended) The method of claim 12, wherein determining the ~~overall~~ a statistical probability of ~~ownership~~ further comprises determining the ~~overall~~ statistical probability of ~~ownership as to all potential owners~~ using the scaled probabilities ~~associated with those owners~~.

14. (Currently amended) The method of claim 13, wherein determining the ~~overall~~ a statistical probability of ~~ownership as to all potential owners~~ further comprises applying Bayes' Theorem to the scaled probabilities of ~~the potential owners~~ to calculate the overall probability for each potential bug owner of owning the bug in question.

15. (Currently amended) A system for determining bug ownership, comprising:

means for scanning a bug database that contains bug records that describe known bugs and identify owners of those bugs;

means for generating database tokens that represent words contained in the bug records;

means for, as to each bug owner, determining the number of times each database token appears in bug records owned by the bug owner such that the number of times the database tokens appear in association with each bug owner is known;

means for storing the determined number of times in a derivative database;

means for generating input tokens that represent words contained in a description of a bug in question;

~~means for generating input tokens associated with a bug in question;~~

means for scanning a the derivative database ~~that associates potential owners with database tokens pertaining to bugs that the owners may own for occurrences of the input tokens for occurrences of the input tokens~~ for occurrences of the input tokens; and

means for identifying the number of times each input token appears in association with each bug owner; and

means for, as to each of multiple potential bug owners, determining ~~an overall a~~ statistical probability of ownership ~~of the potential bug owner owning the bug in question for potential owners of the database.~~

16-19. (Canceled)

20. (Currently amended) The system of claim 19 15, wherein the means for determining ~~the overall a statistical~~ probability of ownership ~~as to the potential owners using the determined probabilities~~ comprise means for applying Bayes' Theorem to ~~those probabilities to calculate the overall probability for~~ as to each potential bug owner of owning the bug in question.

21. (Canceled)

22. (Currently amended) A ~~system stored on a~~ computer-readable medium that contains a system for determining bug ownership, the system comprising:

~~logic configured to generate a database that associates potential owners with tokens that pertain to bug records;~~

logic configured to scan a bug database that contains bug records that describe known bugs and identify owners of those bugs;

logic configured to generate database tokens that represent words contained in the bug records;

logic configured to, as to each bug owner, determine the number of times each database token appears in bug records owned by the bug owner such that the number of times the database tokens appear in association with each bug owner is known;

logic configured to store the determined number of times in a derivative database;

logic configured to generate input tokens that represent words contained in a description of a bug in question;

logic configured to generate input tokens from an input that represent words contained in a description that describes a bug in question;

logic configured to identify the number of occurrences of times each of the input tokens token appears in the derivative database as per each potential bug owner; and

logic configured to, as to each of multiple potential bug owners, determine an overall a statistical probability of ownership of the potential bug owner owning the bug in question for the potential owners relative to the number of occurrences.

23-26. (Canceled)

27. (Currently amended) The system of claim 22, wherein the logic configured to determine ~~the overall~~ a statistical probability of ownership is further configured to apply Bayes' Theorem ~~to the determined probabilities to~~ calculate the overall probability for as to each potential bug owner of owning the bug in question.

28-32. (Canceled)